

PRODUCT OVERVIEW

EV-MC24 is a MPPT solar charge & discharge controller. Typically used in home and off grid power systems.

FEATURES

- FOR OFF-GRID APPLICATIONS - Connect to photovoltaic and supply power to batteries
- ALL-IN-ONE - Supports multiple battery types; highly integrated, saves space and wiring
- USER-FRIENDLY - Easy to install and simple to use; natural cooling, absolutely quiet
- EFFICIENT - MPPT with up to 99.9% efficiency; supports solar panels, 2 in series/more in parallel
- SAFETY - Complete charge and discharge protection mechanism; high quality components for stable operation
- INTELLIGENT - Supports TTL, CAN (RV-C) communication; supports Bluetooth with mobile APP

APPLICATIONS

- Off grid solar systems
- Home solar systems



Product Description

PART#	DESCRIPTION	RATED CURRENT	SYSTEM VOLTAGE	OPERATING VOLTAGE RANGE
EV-MC2420N10	MPPT Controller	20A	12V/24Vdc	9~32Vdc
EV-MC2430N10	MPPT Controller	30A	12V/24Vdc	9~32Vdc
EV-MC2440N10	MPPT Controller	40A	12V/24Vdc	9~32Vdc
EV-MC2450N10	MPPT Controller	50A	12V/24Vdc	9~32Vdc

Specifications

MODEL#	EV-MC2420N10	EV-MC2430N10	EV-MC2440N10	EV-MC2450N10
PV INPUT				
Maximum Voltage of Open Circuit	100Vdc			
MPPT Voltage Range	(Battery voltage + 2V) ~ 72Vdc			
Maximum PV Input Power	260W / 12V, 520W / 24V	400W / 12V, 800W / 24V	550W / 12V, 1100W / 24V	660W / 12V, 1320W / 24V
BATTERY				
Battery Type	FLD/GEL/LI/SLD/User Defined			
Rated Battery Voltage	12/24Vdc			
Battery Voltage Range	9~32Vdc			
Rated Charging Current	20A	30A	40A	50A
MPPT Charging Mode	Buck			
EFFICIENCY				
MPPT Tracking Efficiency	>99%			
Maximum Charging Conversion Efficiency	≤98%			
ACCESSORIES				
Matching	RM-6/ RM-7 Display screen, BT-2 Bluetooth module, USB to TTL Connecting wire, TTL Communication line (TTL to TTL), BTS Temperature sensor, CN-4 (TTL to 485), GP-2 Internet of things module, 6-core communication cable			
GENERAL				
Communication	TTL			
Weight	0.65kg (1.43lb)	0.83kg (1.83lb)	1.04kg (2.3lb)	1.335kg (2.94lb)
Dimensions	150*105.6*61.5mm (5.9*4.16*2.4in)	150*105.6*67.5mm (5.9*4.16*2.66in)	183*127*65.5mm (7.2*5*5.58in)	183*127*69.5mm (5.9*4.16*2.74in)
Protection Degree	IP32			
Operating Temperature Range	-35°C ~ +65°C (-31°F~140°F)			

Wiring Diagram

